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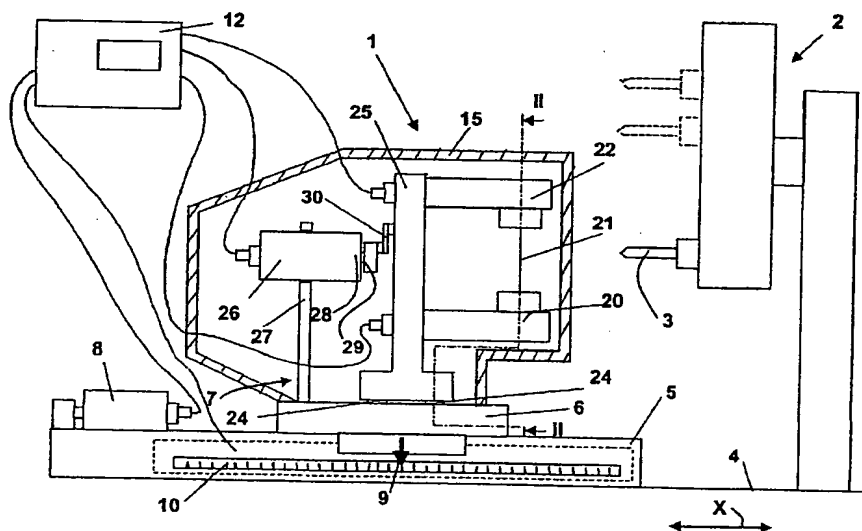
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(54) Title: APPARATUS AND METHOD FOR THE POSITION CHECKING OF A MECHANICAL PART



(57) Abstract: An apparatus for checking the integrity of tools includes an optoelectronic system (7) with a laser beam (21), a base (6) movable along a longitudinal direction (X) for enabling displacements between tool and optoelectronic system and a device for checking the mutual position including, for example, a transducer (9, 10). A sensor (22) of the optoelectronic system detects the interruption of the beam and, on the basis of the transducer signal at said interruption and on the comparison with a known value, the integrity of the tool is determined. A coupling mechanism (24) of the optoelectronic system coupled at the base enables oscillations of the former along a transversal reference surface, that define a sensitive delimited area (33). The oscillations are controlled by means of a motor (26) and interruptions of the beam are detected and signalled by the sensor the moment that the end of the tool interferes with the sensitive delimited area.

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